

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 High Efficiency Three-Phase

Product code :

10672535

Catalog # :

00536EP3EPM182/4Y

Frame : 184Y
Output : 5 HP (3.7 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 11.8/5.90 A
L. R. Amperes : 90.9/45.4 A
LRC : 7.7x(Code J)
No load current : 3.60/1.80 A
Rated speed : 3480 rpm
Slip : 3.33 %
Rated torque : 7.54 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 330 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.1998 sq.ft.lb
Design : B

Locked rotor time : 41s (cold) 23s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : 40°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC418 - TEAO
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 69.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 98.6 lb

Output	25%		50%		75%		100%	
Efficiency (%)	82.8	83.1	84.0	82.5	86.5	85.5	87.5	84.0
	83.2	83.6	82.5	84.0	85.5	85.5	84.0	85.5
Power Factor	0.55	0.58	0.80	0.81	0.86	0.87	0.90	0.90
	0.54	0.52	0.78	0.76	0.85	0.84	0.89	0.88

Foundation loads
Max. traction : 138 lb
Max. compression : 237 lb

	Drive end	Non drive end
Bearing type	6307 ZZ	6206 ZZ
Sealing	V'Ring	V'Ring
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	Mobil Polyrex EM	

Notes:

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 1		
Checked by				
Date	28/03/2024			
			Revision	